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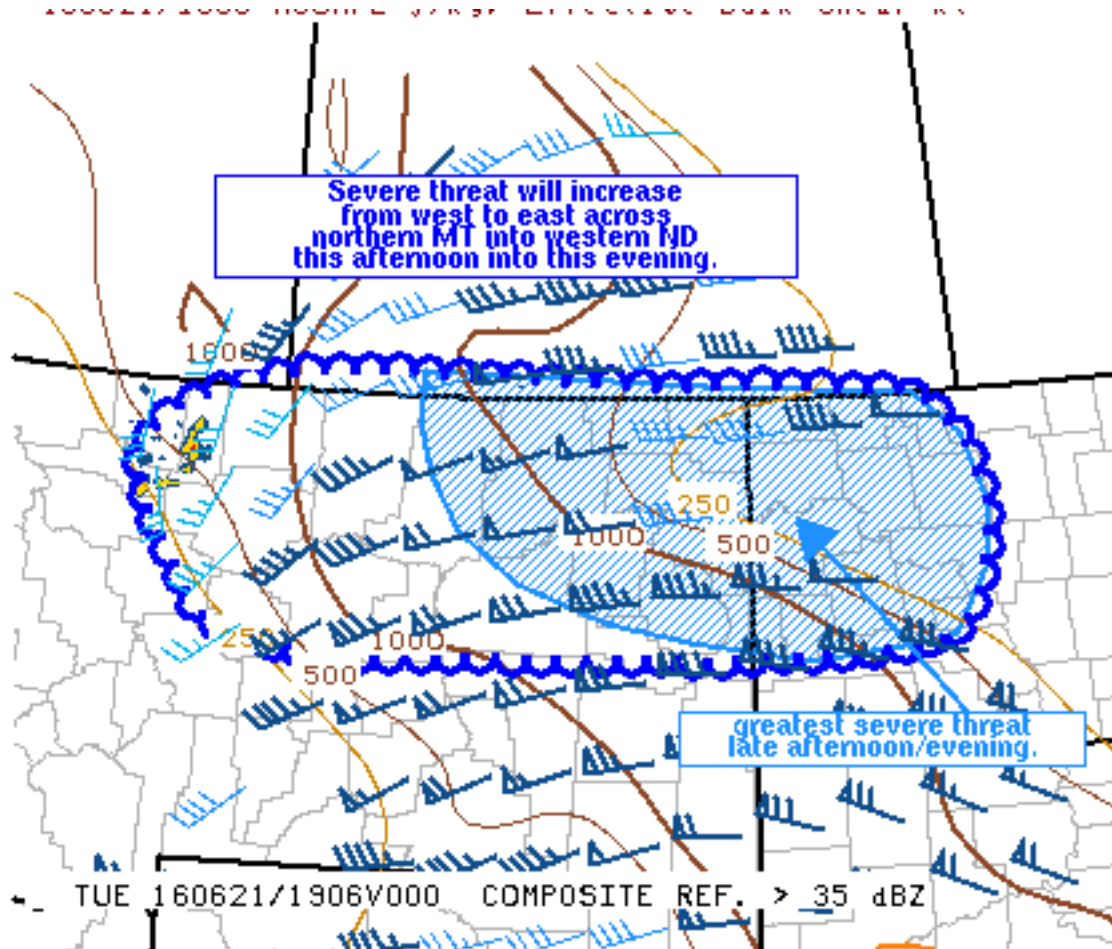
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Mesoscale Discussion 1005

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SPC MCD #1005

MESOSCALE DISCUSSION 1005
 NWS STORM PREDICTION CENTER NORMAN OK
 0246 PM CDT TUE JUN 21 2016

AREAS AFFECTED...N-CNTRL AND NE MT INTO WRN ND

CONCERNING...SEVERE POTENTIAL...WATCH LIKELY

VALID 211946Z - 212145Z

PROBABILITY OF WATCH ISSUANCE...80 PERCENT

SUMMARY...SEVERE THUNDERSTORM THREAT WILL INCREASE ACROSS PARTS OF NORTHEAST MT INTO WESTERN ND THIS AFTERNOON AND EVENING. VERY LARGE HAIL AND DAMAGING WIND GUSTS WILL BE POSSIBLE AND A WATCH WILL LIKELY BE NEEDED BY 22Z. FURTHER WEST...A FEW MARGINALLY SEVERE STORMS ALSO WILL BE POSSIBLE THIS AFTERNOON ACROSS NORTH-CENTRAL MT. SMALL HAIL AND GUSTY WINDS ARE POSSIBLE WITH THESE STORMS...BUT A WATCH IS NOT EXPECTED FURTHER WEST.

DISCUSSION...THUNDERSTORMS WERE ONGOING TO THE WEST OF HVR EARLY

THIS AFTERNOON IN LOW LEVEL UPSLOPE FLOW REGIME. SOME SMALL HAIL AND STRONG WINDS HAVE BEEN NOTED WITH THIS CONVECTION...BUT ACTIVITY APPEARS TO BE SUB-SEVERE. THESE STORMS WILL CONTINUE TO TRACK EASTWARD INTO BETTER LOW-LEVEL MOISTURE WHERE DEWPOINTS WERE IN THE MID TO UPPER 50S ACROSS NE MT. WHILE CAPPING STILL EXISTS DOWNSTREAM OF CURRENT STORMS...CONTINUED HEATING/MODEST INCREASES IN MOISTURE COUPLED WITH INCREASED FORCING FOR ASCENT AS THE UPPER SHORTWAVE TRACKS EASTWARD...SHOULD RESULT IN EROSION OF THE CAP AND AN INCREASE IN STORM INTENSITY ACROSS NE MT AND EVENTUALLY NW ND LATER THIS EVENING.

STEEP MIDLEVEL LAPSE RATES AND FAVORABLE VERTICAL SHEER PROFILES WILL SUPPORT ROTATING UPDRAFTS CAPABLE OF VERY LARGE HAIL. 50+ KT 0-6 KM SHEAR ALSO WILL SUPPORT SUPERCELLS AND BOWING SEGMENTS WITH STRONG DOWNBURST WINDS. UPSCALE GROWTH INTO AN EAST/SOUTHEASTWARD PROPAGATING MCS WILL BE POSSIBLE DURING THE EVENING INTO THE OVERNIGHT HOURS ACROSS PARTS OF WESTERN ND. GIVEN CURRENT TRENDS IN HI-RES DATA...AN UPGRADE TO AN ENHANCED RISK APPEARS PRUDENT IN THE FORTHCOMING 20Z DAY 1 CONVECTIVE OUTLOOK. ADDITIONALLY...A WATCH WILL LIKELY BE NEEDED ACROSS PARTS OF NE MT INTO WRN ND BY 22Z.

..LEITMAN/GUYER.. 06/21/2016

ATTN...WFO...BIS...BYZ...GGW...TFX...

LAT...LON 47221103 47841160 48411184 48741139 49051051 49200923
49090496 49120389 49000179 48590125 47920099 47440112
47100130 46880170 46810283 46800449 46810517 46760933
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